VCP: SAS App for Volumetric Capture Processing

**VCP Volumetric Capture Processor**

VCP produces volumetric 3D models from multiple video and data sources.

This project will build the public-facing interface to a computer vision volumetric capture project being built by the Reese Innovation Lab.

**Technology**

Python/Django hosted on AWS for managing and processing multiple camera data files

HTML, CSS, JavaScript template/views

Code managed in Github

**Data Modeling**

Superusers will be able to create, login and manage user accounts and data

Users will be able to create and log in to an account.

Users can have multiple Projects

Projects can have multiple Scenes

Scenes have multiple captures (at least 2 but can be more)

Users will be able to create a new project with a new scene and upload the captures of that scene. Those captures are then processed in the cloud and a 3D model is output for download and displayed in the page.

Status updates include: Uploading, Processing, Complete

Once the processing is complete, the file stored on S3 is downloadable.

**Views (**[**Wireframes**](https://drive.google.com/file/d/1wxheVSLKVqT6iwlaPMw7eVmFHaQx68E3/view?usp=sharing)**)**

Home page to describe the project/app with login/signup buttons

Logged in user home page

List of projects

Project View

List of scenes

Scene View

Sign Out

Sign In

Sign Up

Support

UPDATE: UI Prototype

<http://vcptest-env.eba-7spnf825.us-east-1.elasticbeanstalk.com/vcp/>

User: comp523

Password: teamz